VGN-S50B/S70B/S90PS/S90S
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P
VGN-S1HP/S1VP/S1XP
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP

SERVICE MANUAL

Ver. 6 2004H

Revision History

Area	Model	Lineup	
Japanese	Japanese	VGN-S50B VGN-S70B VGN-S90PS* VGN-S90S*	
American	US Canadian	VGN-S150 VGN-S150P VGN-S170* VGN-S170B* VGN-S170P*	
	Latin	VGN-S150F VGN-S150FP VGN-S170F	1 [MA] 1 [MA] 1 [MA]
European	AEP/UK	VGN-S1HP VGN-S1VP VGN-S1XP	
Asian/Oceania/ South Africa	International	VGN-S16GP VGN-S18GP	1 [MA]
	Thai	VGN-S16SP VGN-S18SP	4 [MA] 1 [MA]
	Korean	VGN-S16LP VGN-S18LP	2 [MA] 1 [MA]
	Chinese	VGN-S16C VGN-S17C VGN-S18CP	4 [MA] 4 [MA] 4 [MA]
	Taiwan	VGN-S16TP VGN-S18TP	5 [MA] 2 [MA]

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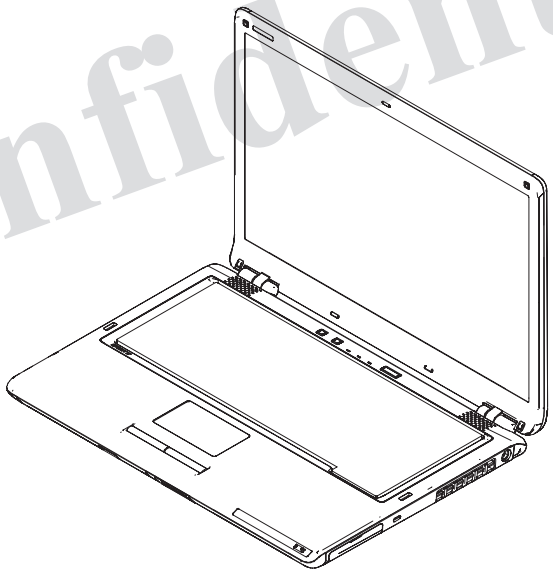

Bluetooth™

Wi Fi CERTIFIED

MEMORY STICK™

i.LINK™ S400

VAIO

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- 本機の仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

PERSONAL COMPUTER

SONY®

9-876-369-06

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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate. Dispose of used battery promptly. Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilati on or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify are as requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the ⚠ mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270°C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈSES SONY DONT LES NUMÉROS SONT DONNÉS DANSCE MANUEL OU DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.

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変更履歴は,“Revision History”として,本データ末に記載してあります。

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VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

CHAPTER 1.
SPECIFICATIONS

1-1. Specifications

	J		J-CTO		AM				
	VGN-S70B	VGN-S50B	VGN-S90PS*	VGN-S90S*	VGN-S150P	VGN-S150	VGN-S150FP	VGN-S150F	VGN-S170F
CPU	PM-1.5GHz	Cel M-1.3GHz	PM-1.8GHz or PM-1.5GHz or Cel M-1.3GHz	PM-1.8GHz or PM-1.5GHz or Cel M-1.3GHz	PM-1.6GHz	PM-1.6GHz	PM-1.6AGHz	PM-1.6AGHz	PM-1.6AGHz
ChipSet	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM
Graphic	M9+X (32MB)	M9+X (32MB)	M9+X(32MB) or M11-P(64MB)	M9+X(32MB) or M11-P(64MB)	M9+X(32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)
LCD	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter) or 13.3 WXGA	13.3 WXGA (Brighter) or 13.3 WXGA	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)
HDD	40GB	40GB	60GB or 40GB	60GB or 40GB	60GB	60GB	40GB	40GB	40GB
MEMORY (DDR333 uDIMM)	256MBx1	256MBx1	1GB(512x2) or 512MB(512x1) or 256MB(256x1)	1GB(512x2) or 512MB(512x1) or 256MB(256x1)	256MBx2	256MBx2	256MBx2	256MBx2	256MBx2
QUANTITY[MAX]	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB
AVAILABLE SLOT(STANDARD)	2	2	2	2	2	2	2	2	2
OPT-DRIVE	9.5 DVD-RW	9.5 DVD-RW	9.5 DVD-RW or 9.5 DVD/CD-RW	9.5 DVD-RW or 9.5 DVD/CD-RW	9.5 DVD/CD-RW	9.5 DVD/CD-RW	9.5 DVD/CD-RW	9.5 DVD/CD-RW	9.5 DVD-RW
int. Wireress LAN	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6
Battery	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2
Bluetooth	○	x	○ or x	○ or x	x	x	x	x	x
OS	Win XP Home	Win XP Home	XP Pro	XP Home	Win XP Pro	Win XP Home	Win XP Pro	Win XP Home	Win XP Home
							⚠1 [MA]	⚠1 [MA]	⚠1 [MA]

	U-CTO			EU			AO		
	VGN-S170B*	VGN-S170P*	VGN-S170*	VGN-S1XP	VGN-S1VP	VGN-S1HP	VGN-S18GP	VGN-S16GP	VGN-S18LP
CPU	PM-2.0A or PM-1.8 or PM-1.7A or PM-1.5 or Cel M-1.4	PM-2.0A or PM-1.8 or PM-1.7A or PM-1.5 or Cel M-1.4	PM-2.0A or PM-1.8 or PM-1.7A or PM-1.5 or Cel M-1.4	PM-1.7AGHz	PM-1.7AGHz	PM-1.5AGHz	PM-1.6GHz	PM-1.5GHz	PM-1.6GHz
ChipSet	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM
Graphic	M9+X (32MB) or M11-P (64MB)	M9+X (32MB) or M11-P (64MB)	M9+X (32MB) or M11-P (64MB)	M11-P (64MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)
LCD	13.3 WXGA (Brighter) or 13.3 WXGA	13.3 WXGA (Brighter) or 13.3 WXGA	13.3 WXGA (Brighter) or 13.3 WXGA	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)
HDD	40GB or 60GB or 80GB(4.2Krpm) or 80GB(5.4Krpm)	40GB or 60GB or 80GB(4.2Krpm) or 80GB(5.4Krpm)	40GB or 60GB or 80GB(4.2Krpm) or 80GB(5.4Krpm)	60GB	60GB	40GB	60GB	40GB	60GB
MEMORY (DDR333 uDIMM)	512MBx2 or 512MBx1 or 256MBx2 or 256MBx1	512MBx2 or 512MBx1 or 256MBx2 or 256MBx1	512MBx2 or 512MBx1 or 256MBx2 or 256MBx1	512MBx1	512MBx1	512MBx1	512MBx1	256MBx1	512MBx1
QUANTITY[MAX]	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB
AVAILABLE SLOT(STANDARD)	2	2	2	2	2	2	2	2	2
OPT-DRIVE	9.5 DVD-RW or 9.5 DVD/CD-RW	9.5 DVD-RW or 9.5 DVD/CD-RW	9.5 DVD-RW or 9.5 DVD/CD-RW	9.5 DVD-RW	9.5 DVD-RW	9.5 DVD/CD-RW	9.5 DVD-RW	9.5 DVD/CD-RW	9.5 DVD-RW
int. Wireress LAN	802.11b/g or None	802.11b/g or None	802.11b/g or None	802.11b/g	802.11b/g	802.11b/g	802/11b.g	802.11b/g	802.11b/g
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6
Battery	VGP-BPS2 or VGP-BPL2	VGP-BPS2 or VGP-BPL2	VGP-BPS2 or VGP-BPL2	VGP-BPS2, VGP-BPL2	VGP-BPS2, VGP-BPL2	VGP-BPS2, VGP-BPL2	VGP-BPS2, VGP-BPL2	VGP-BPS2, VGP-BPL2	VGP-BPS2, VGP-BPL2
Bluetooth	○ or x	○ or x	○ or x	○	○	○	x	x	x
OS	Win XP Pro(SMB)	Win XP Pro	Win XP Home	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro
								⚠1 [MA]	⚠1 [MA]

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組み合わせについてはCTO Informationをご確認ください。

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	AO							
	VGN-S16LP	VGN-S18SP	VGN-S16SP	VGN-S18TP	VGN-S16TP	VGN-S18CP	VGN-S17C	VGN-S16C
CPU	PM-1.5GHz	PM-1.6GHz	PM-1.5GHz	PM-1.6GHz	PM-1.5GHz	PM-1.6GHz	PM-1.6GHz	PM-1.5GHz
ChipSet	855PM	855PM	855PM	855PM	855PM	855PM	855PM	855PM
Graphic	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)	M9+X (32MB)
LCD	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)	13.3 WXGA (Brighter)
HDD	40GB	60GB	40GB	60GB	40GB	60GB	40GB	40GB
MEMORY (DDR333 uDIMM)	256MBx1	512MBx1	256MBx1	512MBx1	256MBx1	512MBx1	256MBx1	256MBx1
QUANTITY[MAX]	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB	1024MB
AVAILABLE SLOT(STANDARD)	2	2	2	2	2	2	2	2
OPT-DRIVE	9.5 DVD/CD-RW	9.5 DVD-RW	9.5 DVD/CD-RW	9.5 DVD-RW	9.5 DVD/CD-RW	9.5 DVD-RW	9.5 DVD/CD-RE	9.5 DVD/CD-RW
int. Wireress LAN	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g	802.11b/g
AC adaptor	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6	PCGA-AC16V6
Battery	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2	VGP-BPS2
Bluetooth	x	x	x	x	x	x	x	x
OS	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Pro	Win XP Home	Win XP Home
	⚠2 [MA]	⚠1 [MA]	⚠4 [MA]	⚠2 [MA]	⚠5 [MA]	⚠4 [MA]	⚠4 [MA]	⚠4 [MA]

・The trademarks of registered trademarks of above table, refer to page 2.
・The model that is accompanied by asterisk (*) is the CTO model.
・本表中の商標・登録商標については，2ページをご参照ください。
・機種名に（*）がつくものはCTOモデルです。
組み合わせについてはCTO Informationをご確認ください。

1-2. CTO Information

Model name:VGN-S90PS
Model number:PCG-6C1N or 6C2N
OS:Windows XP Pro
Ver.1.0

M/B	**MBX-109 (M11_64)** A-1072-470-A COMPLETE PWB MBX-109 (M11_64)	**MBX-109 (M9_32)** A-1072-469-A COMPLETE PWB MBX-109 (M9_32)	
CPU	**Pen-M 1.8G** 6-600-306-01 IC RH80536GC0332MSL7EN	**Pen-M 1.5G** 6-600-304-01 IC RH80535GC0211MSL6F9	**CEL-M 1.3G** 6-600-334-01 IC RH80535NC013512SL6N7
HDD	**60GB** A-1065-523-A ASSY HDD 60GB (-21) (H,40) (S)	**40GB** A-1065-524-A ASSY HDD 40GB (-21) (H,40) (S)	
LCD	**13.3 WXGA (Brighter)** A-1072-481-A LCD UNIT (13.3 WXGA TFT)	**13.3 WXGA (Normal)** A-1072-480-A LCD UNIT(13.3 WXGA TFT) NORMAL	
Memory	**1GB(512Mx2)** A-1072-503-Ax2 COMPLETE PWB MM-9A	**512MB(512Mx1)** A-1072-503-A COMPLETE PWB MM-9A	**256MB** A-1072-479-A COMPLETE PWB MM-11A
Opt.Drive	**Combo** 1-796-822-12 COMBO DRIVE (UJDA755,9.5MM)	**DVD-RW** 1-796-892-13 DVDRW (UJ-812,9.5MM)	
W-LAN	**Available** 1-761-864-23 WIRELESS LAN CARD		
Bluetooth	**Available** 1-805-554-11 BLUETOOTH MODULE	**None**	
Battery	**standard** A-1072-505-A BATTERY PACK BPS2 (J) (S)		
Office	**2003 Personal**	**None**	

Model name:VGN-S90S
Model number:PCG-6C1N or 6C2N
OS:Windows XP Home
Ver.1.0

M/B	**MBX-109 (M11_64)** A-1072-470-A COMPLETE PWB MBX-109 (M11_64)	**MBX-109 (M9_32)** A-1072-469-A COMPLETE PWB MBX-109 (M9_32)	
CPU	**Pen-M 1.8G** 6-600-306-01 IC RH80536GC0332MSL7EN	**Pen-M 1.5G** 6-600-304-01 IC RH80535GC0211MSL6F9	**CEL-M 1.3G** 6-600-334-01 IC RH80535NC013512SL6N7
HDD	**60GB** A-1065-523-A ASSY HDD 60GB (-21) (H,40) (S)	**40GB** A-1065-524-A ASSY HDD 40GB (-21) (H,40) (S)	
LCD	**13.3 WXGA (Brighter)** A-1072-481-A LCD UNIT (13.3 WXGA TFT)	**13.3 WXGA (Normal)** A-1072-480-A LCD UNIT(13.3 WXGA TFT) NORMAL	
Memory	**1GB(512Mx2)** A-1072-503-Ax2 COMPLETE PWB MM-9A	**512MB(512Mx1)** A-1072-503-A COMPLETE PWB MM-9A	**256MB** A-1072-479-A COMPLETE PWB MM-11A
Opt.Drive	**Combo** 1-796-822-12 COMBO DRIVE (UJDA755,9.5MM)	**DVD-RW** 1-796-892-13 DVDRW (UJ-812,9.5MM)	
W-LAN	**Available** 1-761-864-23 WIRELESS LAN CARD		
Bluetooth	**Available** 1-805-554-11 BLUETOOTH MODULE	**None**	
Battery	**standard** A-1072-505-A BATTERY PACK BPS2 (J) (S)		
Office	**2003 Personal**	**None**	

Model name:VGN-S170
Model number:PCG-6C1L,6C2L,6C3L
OS:Windows XP Home
Ver.1.0

M/B	**MBX-109(M11_64)** A-1072-470-A COMPLETE PWB MBX-109 (M11_64)	**MBX-109(M9_32)** A-1072-469-A COMPLETE PWB MBX-109 (M9_32)			
CPU	**Pen-M 2.0GHz** 6-706-559-01 IC RH80536GC0412MSL7EM	**Pen-M 1.8GHz** 6-600-306-01 IC RH80536GC0332MSL7EN	**Pen-M 1.70AGHz** 6-600-343-01 IC RH80536GC0292MSL7EP	**Pen-M 1.5AGHz** 6-600-368-01 IC RH80536GC0212MSL7GL	**Cel-M 1.4GHz** 6-706-572-01 IC RH80535NC017512
HDD	**80GB (5400rpm)** A-1062-140-A HDD_(80GB,HTS548080M9AT00)_(S)	**80GB (4200rpm)** A-8117-058-A ASSY HDD 80GB (H,40) (S)	**60GB** A-1065-523-A ASSY HDD 60GB (-21) (H,40) (S)	**40GB** A-1065-524-A ASSY HDD 40GB (-21) (H,40) (S)	
LCD	**13.3 WXGA (Brighter)** A-1072-481-A LCD UNIT (13.3 WXGA TFT)	**13.3 WXGA (Normal)** A-1072-480-A LCD UNIT(13.3 WXGA TFT) NORMAL			
Memory	**1GB(512Mx2)** A-1072-503-Ax2 COMPLETE PWB MM-9A	**512MB(256Mx2)** A-1072-479-Ax2 COMPLETE PWB MM-11A	**512MB** A-1072-503-A COMPLETE PWB MM-9A	**256MB** A-1072-479-A COMPLETE PWB MM-11A	
Opt.Drive	**Combo** 1-796-822-12 COMBO DRIVE (UJDA755,9.5MM)	**DVD-RW** 1-796-892-13 DVDRW (UJ-812,9.5MM)			
W-LAN	**Available** 1-761-864-13 WIRELESS LAN CARD	**None**			
Bluetooth	**802.11b/g** 1-805-554-11 BLUETOOTH MODULE	**None**			
Battery	**standard** A-1072-506-A BATTERY PACK BPS2 (U) (S)	**LLL** A-1072-509-A BATTERY PACK BPL2 (U) (S)			

Model name:VGN-S170P
Model number:PCG-6C1L,6C2L,6C3L
OS:Windows XP Pro
Ver.1.0

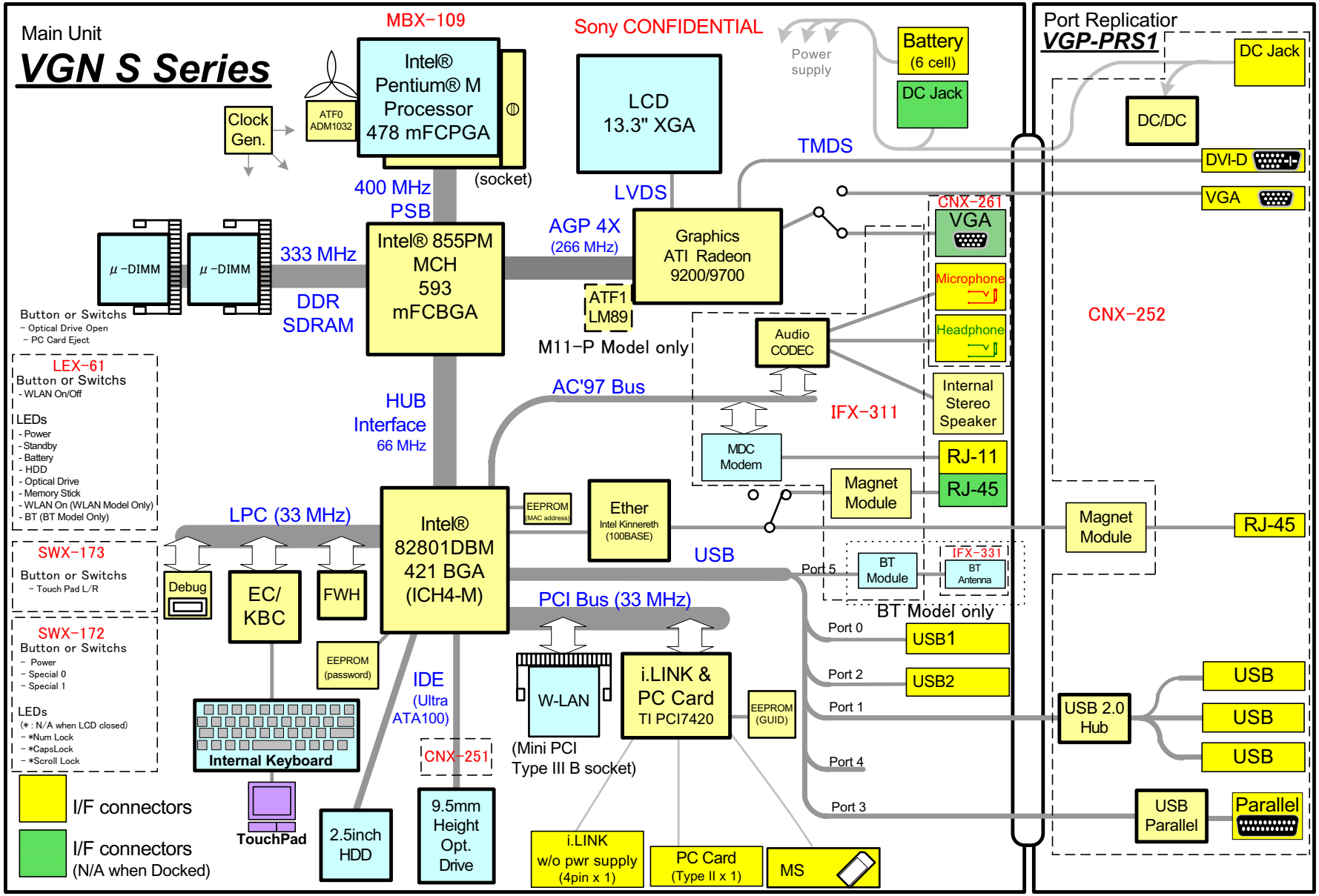
M/B	**MBX-109(M11_64)** A-1072-470-A COMPLETE PWB MBX-109 (M11_64)	**MBX-109(M9_32)** A-1072-469-A COMPLETE PWB MBX-109 (M9_32)			
CPU	**Pen-M 2.0GHz** 6-706-559-01 IC RH80536GC0412MSL7EM	**Pen-M 1.8GHz** 6-600-306-01 IC RH80536GC0332MSL7EN	**Pen-M 1.70AGHz** 6-600-343-01 IC RH80536GC0292MSL7EP	**Pen-M 1.5AGHz** 6-600-368-01 IC RH80536GC0212MSL7GL	**Cel-M 1.4GHz** 6-706-572-01 IC RH80535NC017512
HDD	**80GB (5400rpm)** A-1062-140-A HDD_(80GB,HTS548080M9AT00)_(S)	**80GB (4200rpm)** A-8117-058-A ASSY HDD 80GB (H,40) (S)	**60GB** A-1065-523-A ASSY HDD 60GB (-21) (H,40) (S)	**40GB** A-1065-524-A ASSY HDD 40GB (-21) (H,40) (S)	
LCD	**13.3 WXGA (Brighter)** A-1072-481-A LCD UNIT (13.3 WXGA TFT)	**13.3 WXGA (Normal)** A-1072-480-A LCD UNIT(13.3 WXGA TFT) NORMAL			
Memory	**1GB(512Mx2)** A-1072-503-Ax2 COMPLETE PWB MM-9A	**512MB(256Mx2)** A-1072-479-Ax2 COMPLETE PWB MM-11A	**512MB** A-1072-503-A COMPLETE PWB MM-9A	**256MB** A-1072-479-A COMPLETE PWB MM-11A	
Opt.Drive	**Combo** 1-796-822-12 COMBO DRIVE (UJDA755,9.5MM)	**DVD-RW** 1-796-892-13 DVDRW (UJ-812,9.5MM)			
W-LAN	**Available** 1-761-864-13 WIRELESS LAN CARD	**None**			
Bluetooth	**802.11b/g** 1-805-554-11 BLUETOOTH MODULE	**None**			
Battery	**standard** A-1072-506-A BATTERY PACK BPS2 (U) (S)	**LLL** A-1072-509-A BATTERY PACK BPL2 (U) (S)			

Model name:VGN-S170B
Model number:PCG-6C1L,6C2L,6C3L
OS:Windows XP Pro(SMB)
Ver.1.0

M/B	**MBX-109(M11_64)** A-1072-470-A COMPLETE PWB MBX-109 (M11_64)	**MBX-109(M9_32)** A-1072-469-A COMPLETE PWB MBX-109 (M9_32)			
CPU	**Pen-M 2.0GHz** 6-706-559-01 IC RH80536GC0412MSL7EM	**Pen-M 1.8GHz** 6-600-306-01 IC RH80536GC0332MSL7EN	**Pen-M 1.70AGHz** 6-600-343-01 IC RH80536GC0292MSL7EP	**Pen-M 1.5AGHz** 6-600-368-01 IC RH80536GC0212MSL7GL	**Cel-M 1.4GHz** 6-706-572-01 IC RH80535NC017512
HDD	**80GB (5400rpm)** A-1062-140-A HDD_(80GB,HTS548080M9AT00)_(S)	**80GB (4200rpm)** A-8117-058-A ASSY HDD 80GB (H,40) (S)	**60GB** A-1065-523-A ASSY HDD 60GB (-21) (H,40) (S)	**40GB** A-1065-524-A ASSY HDD 40GB (-21) (H,40) (S)	
LCD	**13.3 WXGA (Brighter)** A-1072-481-A LCD UNIT (13.3 WXGA TFT)	**13.3 WXGA (Normal)** A-1072-480-A LCD UNIT(13.3 WXGA TFT) NORMAL			
Memory	**1GB(512Mx2)** A-1072-503-Ax2 COMPLETE PWB MM-9A	**512MB(256Mx2)** A-1072-479-Ax2 COMPLETE PWB MM-11A	**512MB** A-1072-503-A COMPLETE PWB MM-9A	**256MB** A-1072-479-A COMPLETE PWB MM-11A	
Opt.Drive	**Combo** 1-796-822-12 COMBO DRIVE (UJDA755,9.5MM)	**DVD-RW** 1-796-892-13 DVDRW (UJ-812,9.5MM)			
W-LAN	**Available** 1-761-864-13 WIRELESS LAN CARD	**None**			
Bluetooth	**802.11b/g** 1-805-554-11 BLUETOOTH MODULE	**None**			
Battery	**standard** A-1072-506-A BATTERY PACK BPS2 (U) (S)	**LLL** A-1072-509-A BATTERY PACK BPL2 (U) (S)			

CHAPTER 2.

BLOCK DIAGRAM



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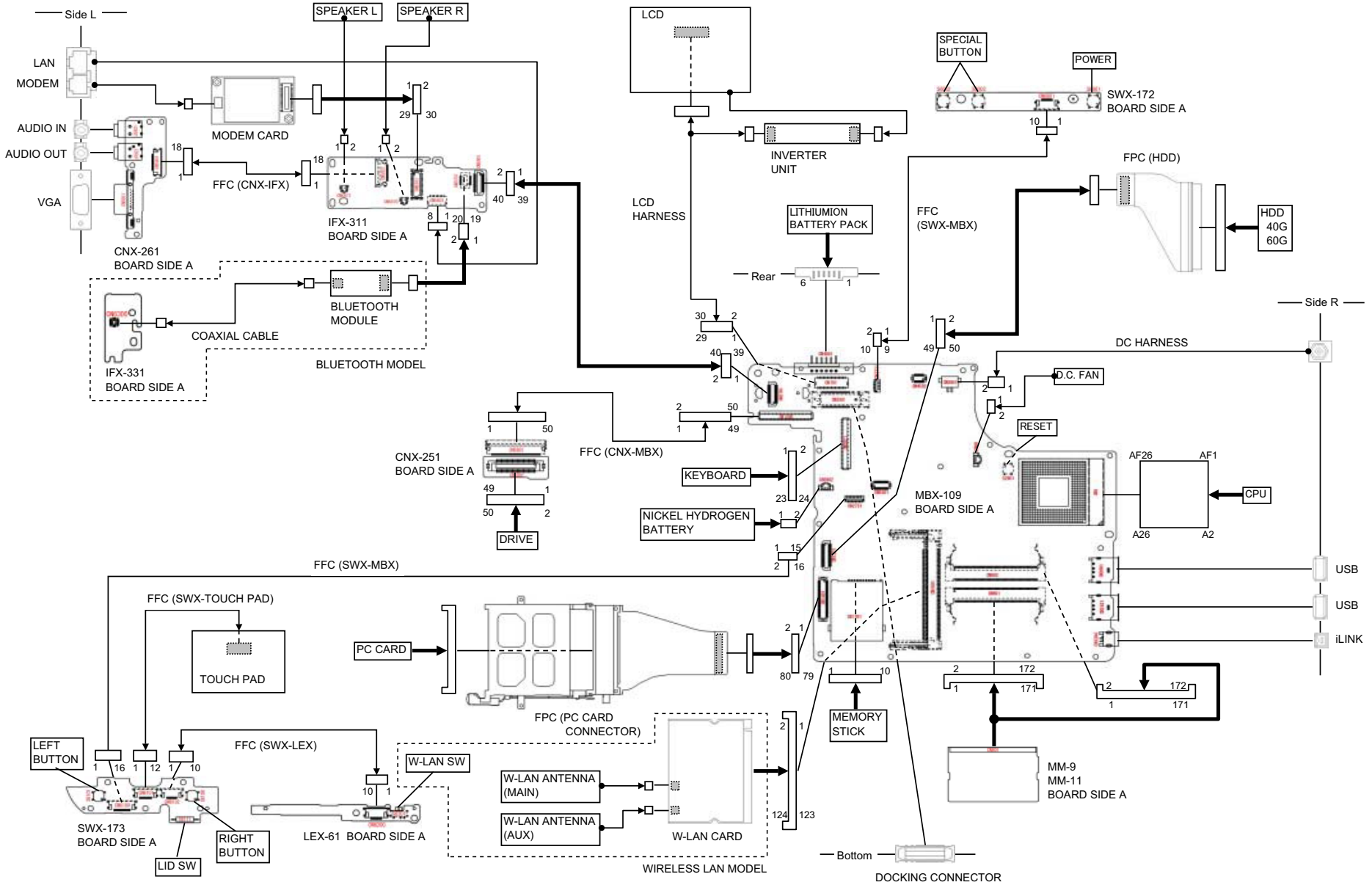
CHAPTER 3.

FRAME HARNESS DIAGRAM



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CHAPTER 4.

EXPLODED VIEWS AND PARTS LIST

- The parts list is compiled by blocks of a palmrest and bottom etc. The sections of the parts list are different depending on the model. Please refer to list of contents shown in the below.

- 分解図と部品表は，パームレスト，ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので，詳細は右下の一覧表を参照してください。

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Palmrest

P-1 4-2

Main Board

M-1 4-4

Bottom

B-1 4-6

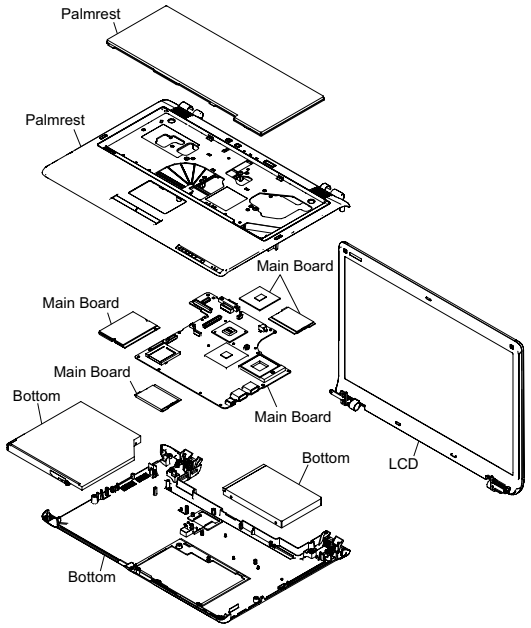
LCD

L-1. 13.3-inch WXGA (Brighter) 4-8

L-2. 13.3-inch WXGA 4-10

Accessory

A-1 4-12



			Palmrest	Main Board	Bottom	LCD	Accessory
	J	S70B	P-1	M-1	B-1	L-1	A-1
		S50B	P-1	M-1	B-1	L-1	A-1
		S90PS*	P-1	M-1	B-1	L-1, 2	A-1
		S90S*	P-1	M-1	B-1	L-1, 2	A-1
	AM	S150P	P-1	M-1	B-1	L-1	A-1
		S150	P-1	M-1	B-1	L-1	A-1
		S170*	P-1	M-1	B-1	L-1, 2	A-1
		S170B*	P-1	M-1	B-1	L-1, 2	A-1
		S170P*	P-1	M-1	B-1	L-1, 2	A-1
1 [MA]		S150FP	P-1	M-1	B-1	L-1	A-1
1 [MA]		S150F	P-1	M-1	B-1	L-1	A-1
1 [MA]		S170F	P-1	M-1	B-1	L-1	A-1
	EU	S1XP	P-1	M-1	B-1	L-1	A-1
		S1VP	P-1	M-1	B-1	L-1	A-1
		S1HP	P-1	M-1	B-1	L-1	A-1
	AO	S18GP	P-1	M-1	B-1	L-1	A-1
1 [MA]		S16GP	P-1	M-1	B-1	L-1	A-1
1 [MA]		S18LP	P-1	M-1	B-1	L-1	A-1
2 [MA]		S16LP	P-1	M-1	B-1	L-1	A-1
1 [MA]		S18SP	P-1	M-1	B-1	L-1	A-1
4 [MA]		S16SP	P-1	M-1	B-1	L-1	A-1
2 [MA]		S18TP	P-1	M-1	B-1	L-1	A-1
5 [MA]		S16TP	P-1	M-1	B-1	L-1	A-1
4 [MA]		S18CP	P-1	M-1	B-1	L-1	A-1
4 [MA]		S17C	P-1	M-1	B-1	L-1	A-1
4 [MA]		S16C	P-1	M-1	B-1	L-1	A-1

* : CTO model

NOTE:

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- When two or more parts are shown, use the part described first as the main part.
- The parts marked " $ " are the High Value Modules (HVM).
- The parts marked " # " are the parts on which barcode label is attached. For the barcode label, refer to CHAPTER 5.
- The parts marked "&" are the "Customer Replacable Parts (CRP)" that can be replaced by Field Customer Support. Especially the parts with the <&> mark require the special attention to use them. Here fore, check first whether the desired part is one of the targetted parts of the Customer Replaceable Parts (CRP), or the non-targetted parts by referring to the exploded view.

【使用上の注意】

- *印の部品は常備在庫しておりません。
- 図面番号のない部品は供給しません。
- 併記部品の場合，上部記載部品をメイン部品として使用してください。
- 部品名称の前に$印のついた部品は，High Value Module（HVM）です。
- 商品名称の前に#印のついた部品は，バーコードラベル貼付部品です。
  バーコードラベルについてはCHAPTER 5を参照してください。
- 部品名称の前に&印のついた部品は，お客様窓口などでも交換可能なCustomer Replacable Part（CRP）です。
  特に<&>のついた部品は，使い分けが必要な部品ですので，分解図でCustomer Replacable Parts対象部品か，対象外部品かを必ず御確認ください。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

⚠印の部品，または⚠印付きの点線で囲まれた部品は，安全性を維持するために重要な部品です。従って交換時は，必ず指定の部品を使用して下さい。

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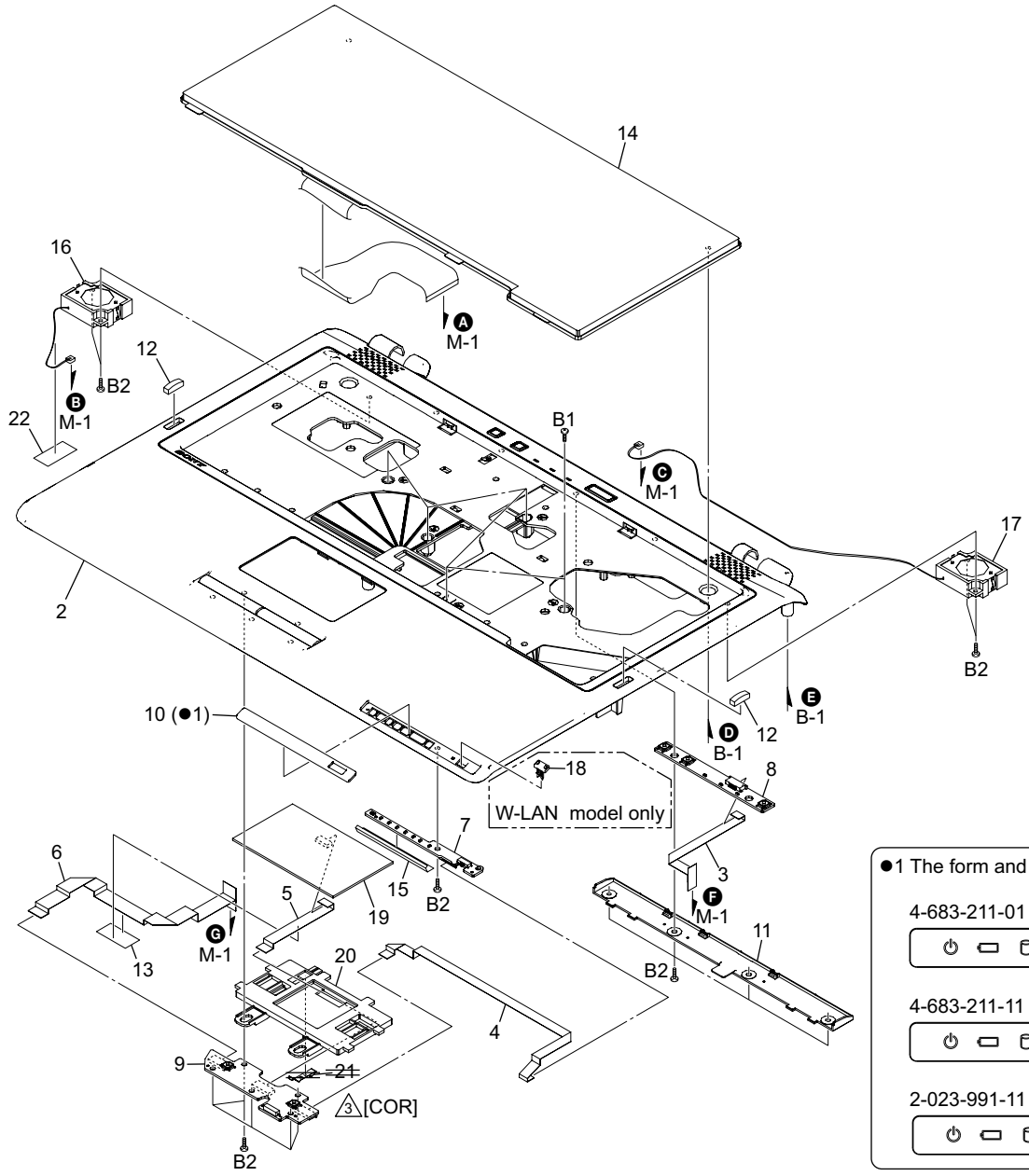
VGN-S50B/S70B/S90PS/S90S (J)
VGN-S150/S150F/S150FP/S150P/S170/S170B/S170F/S170P (AM)
VGN-S1HP/S1VP/S1XP (EU)
VGN-S16C/S16GP/S16LP/S16SP/S16TP/S17C/S18CP/S18GP/S18LP/S18SP/S18TP (AO)

P-1. Palmrest

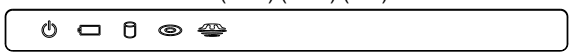


●1 The form and the printing of LED cover differs for every part number.

4-683-211-01 COVER LED

4-683-211-11 COVER LED

2-023-991-11 COVER (LED) (W/O) (WL)



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P-1. Palmrest

Ref. No.	Part No.		Description		
2	X-4626-772-2		ASSY PALMREST		
3	1-829-196-11		CABLE, FLEXIBLE FLAT (10PIN)		
4	1-829-198-11		CABLE, FLEXIBLE FLAT (10PIN)		
5	1-829-195-11		CABLE, FLEXIBLE FLAT (12PIN)		
6	1-829-197-11		CABLE, FLEXIBLE FLAT (16PIN)		
7	A-1072-475-A	$	COMPLETE PWB LEX-61 (S)		
8	A-1072-476-A	$	COMPLETE PWB SWX-172 (S)		
9	A-1072-477-A	$	COMPLETE PWB SWX-173 (S)		
11	4-683-212-01		COVER PALM		
12	4-654-440-22		CUSHION (PALM)		
13	4-662-881-02		CUSHION, KEY BOARD		
15	2-148-163-02		SHEET LED OTHER	⚠ [COR]	
16	1-825-846-11		SPEAKER WITH BOX (L)	X-4626-773-2	ASSY HOLDER TP
17	1-825-846-21		SPEAKER WITH BOX (R)		
19	1-796-958-11		TOUCH PAD		
20	~~4-683-209-02~~		~~HOLDER TP~~		
21	~~4-683-210-01~~		~~PLATE TP GND~~ ⚠ [DEL]		
22	4-672-493-01		COVER (SC)		
B1	4-672-834-71		SCREW, +B EG GRIP		
B2	4-676-936-01		+SCREW,O2 +SPECIAL HEAD SELF S		

	Ref.No.	Part No.		Description	J				AM									EU			AO												
					S70B	S50B	S90PS*	S90S*	S150P	S150	S170*	S170B*	S170P*	S150FP	S150F	S170F	S1XP	S1VP	S1HP	S18GP	S16GP	S18LP	S16LP	S18SP	S16SP	S18TP	S16TP	S18CP	S17C	S16C			
	10	4-683-211-01		COVER LED	●		●	●			●	●	●				●	●	●														
		4-683-211-11		COVER LED		●	●		●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●	●			
		2-023-991-01		COVER (LED) (W/O) (WL)							●	●	●																				
	14	1-478-713-12	#	KEYBOARD UNIT (JP)	●	●	●	●																									
		1-478-713-22	#	KEYBOARD UNIT (US)					●	●	●	●	●							●	●							●	●	●			
⚠ [MA]		1-478-716-72	#	KEYBOARD UNIT (LA)											●	●	●																
		1-478-716-12	#	(UK)...KEYBOARD UNIT (GB)														●	●	●													
		1-478-716-22	#	(German)...KEYBOARD UNIT (DE)														●	●	●													
		1-478-716-32	#	(Swiss)...KEYBOARD UNIT (CH)														●	●	●													
		1-478-716-42	#	(French)...KEYBOARD UNIT (FR)														●	●	●													
		1-478-716-52	#	(Italian)...KEYBOARD UNIT (IT)														●	●	●													
		1-478-716-62	#	(Spanish)...KEYBOARD UNIT (ES)														●	●	●													
		1-478-716-82	#	(EC)...KEYBOARD UNIT (SE)														●	●	●													
		1-478-716-92	#	(EFTA)...KEYBOARD UNIT (PT)														●	●	●													
⚠ [MA]		1-478-713-32	#	KEYBOARD UNIT (KR)																		●	●										
⚠ [MA]		1-478-713-42	#	KEYBOARD UNIT (TH)																				●	●								
⚠ [MA]		1-478-713-52	#	KEYBOARD UNIT (TW)																						●	●						
	18	4-683-214-02		SWITCH WL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●				
														⚠ [MA]	⚠ [MA]	⚠ [MA]				⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]	⚠ [MA]

- This parts list contains two different types of parts.
  The first type is the parts that are common to all models.
  The other type is the parts that are different depending on each model.

- この部品表は，機種共通の部品と，機種によって使い分けが必要な部品に分かれています。

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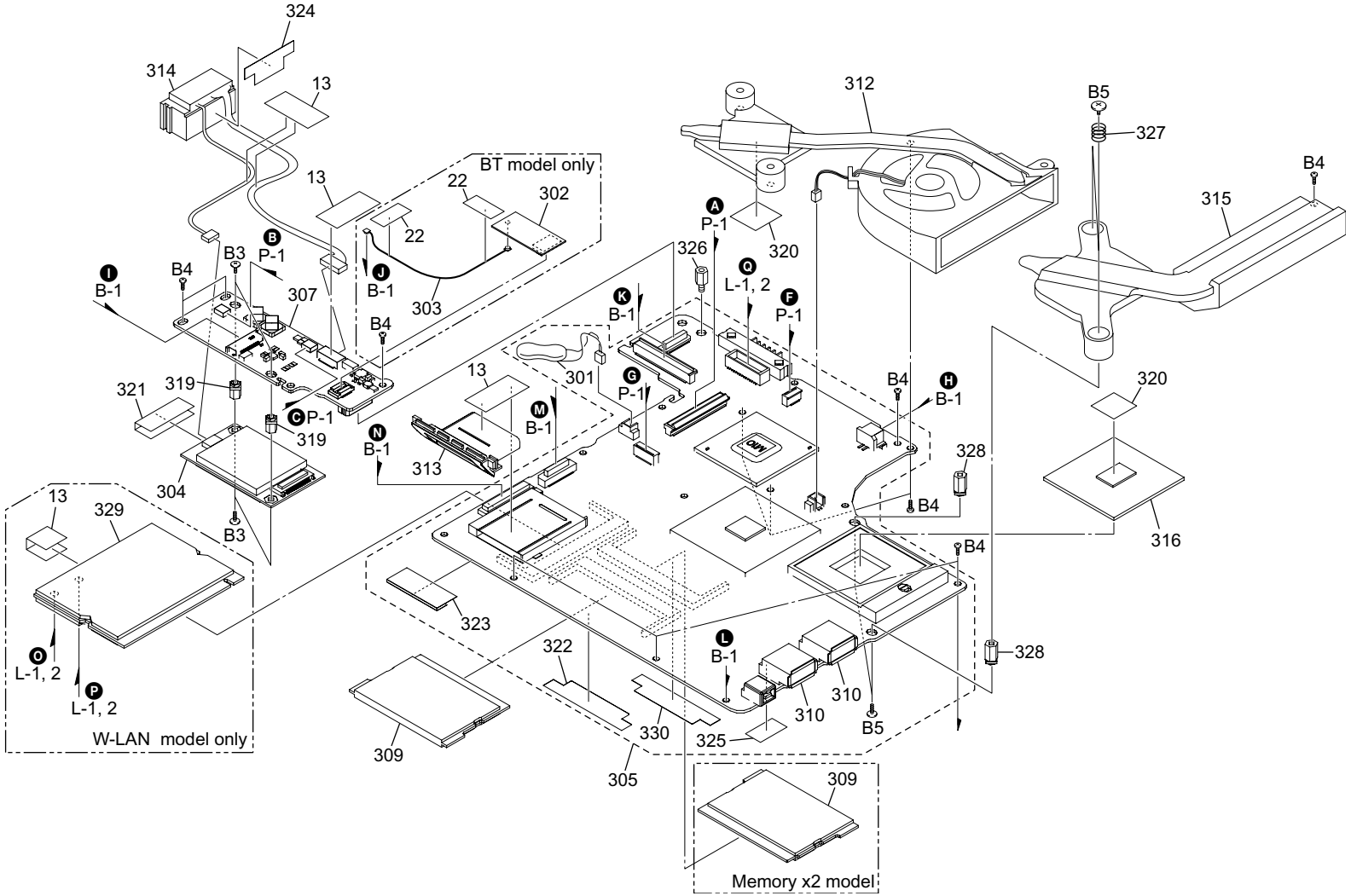
M-1.Main Board



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M-1.Main Board

Ref. No.	Part No.		Description
13	4-662-881-02		CUSHION, KEY BOARD
22	4-672-493-01		COVER (SC)
301	1-756-038-21		BATTERY, NICKEL HYDROGEN
304	1-761-606-14	#	CARD, MODEM
307	A-1072-473-A	$	COMPLETE PWB IFX-311 (S)
310	1-794-548-21		CONNECTOR, USB(A)
312	1-787-166-12		D.C. FAN
313	4-683-176-01		ESCUTCHEON MS
314	1-962-758-11		HARNESS, RJ-45/11
315	4-683-233-01		HEATSINK UNIT
319	4-655-326-01		OFF, STAND
320	2-023-990-01		SHEET (THERMAL)
321	2-059-468-01		SHEET MDC
322	4-677-165-01		SHEET MEMORY
323	2-109-082-01		SHEET MS
324	2-109-080-01		SHEET RJ-CON
325	2-059-469-01		SHEET USB
326	4-651-989-51		SPACER (MBX)
327	2-102-944-01		SPRING HEATSINK
328	2-050-130-01		STAND (OFF)
330	2-148-340-01		CAUTION (LABEL) (MEMORY)
B3	4-672-836-01		SCREW ,M2 SPECIAL HEAD,EG GRIP
B4	4-672-834-51		SCREW, +B EG GRIP
B5	2-050-159-01		M2 SPECIAL HEAD D7,T1

Ref.No.	Part No.		Description	J				AM								EU			AO														
				S70B	S50B	S90PS*	S90S*	S150P	S150	S170*	S170B*	S170P*	S150FP	S150F	S170F	S1XP	S1VP	S1HP	S18GP	S16GP	S18LP	S16LP	S18SP	S16SP	S18TP	S16TP	S18CP	S17C	S16C				
302	1-805-554-11		BLUETOOTH MODULE	●		●	●			●	●	●				●	●	●														
303	1-829-369-11		CABLE, COAXIAL (WITH U.F.L CON	●		●	●			●	●	●				●	●	●														
305	A-1072-469-A	$	# COMPLETE MBX109 (M9_32)(S)	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●				
	A-1072-470-A	$	# COMPLETE MBX109 (M11_64)(S)			●	●			●	●	●				●																
309	A-1072-479-A	$	# COMPLETE PWB MM-11A (S)	●	●	●	●	●	●	●	●	●	●	●	●					●		●		●		●		●	●			
	A-1072-503-A	$	# COMPLETE PWB MM-9A (S)			●	●			●	●	●				●	●	●	●		●		●		●		●					
316	6-600-304-01		IC RH80535GC0211MSL6F9	●		●	●													●		●		●		●			●			
	6-600-302-01		IC RH80535GC0251MSL6FA																●		●		●		●		●	●				
	6-600-334-01		IC RH80535NC013512SL6N7			●	●																									
	6-600-368-01		IC RH80536GC0212MSL7GL							●	●	●						●														
	6-600-343-01		IC RH80536GC0292MSL7EP							●	●	●				●	●															
	6-600-306-01		IC RH80536GC0332MSL7EN			●	●			●	●	●																				
	6-600-355-01		IC RH80536GC0252MSL7EG					●	●				●	●	●																	
	6-706-559-01		IC RH80536GC0412MSL7EM							●	●	●																				
	6-706-572-01		IC RH80535NC017512							●	●	●																				
329	1-761-864-14		# WIRELESS LAN CARD					●	●	●	●	●	●	●	●										●	●						
	1-761-864-23		# WIRELESS LAN CARD	●	●	●	●																									
	1-761-864-33		# WIRELESS LAN CARD													●	●	●	●	●	●	●	●	●		●	●	●				

⚠[MA] ⚠[MA]

- This parts list contains two different types of parts.
  The first type is the parts that are common to all models.
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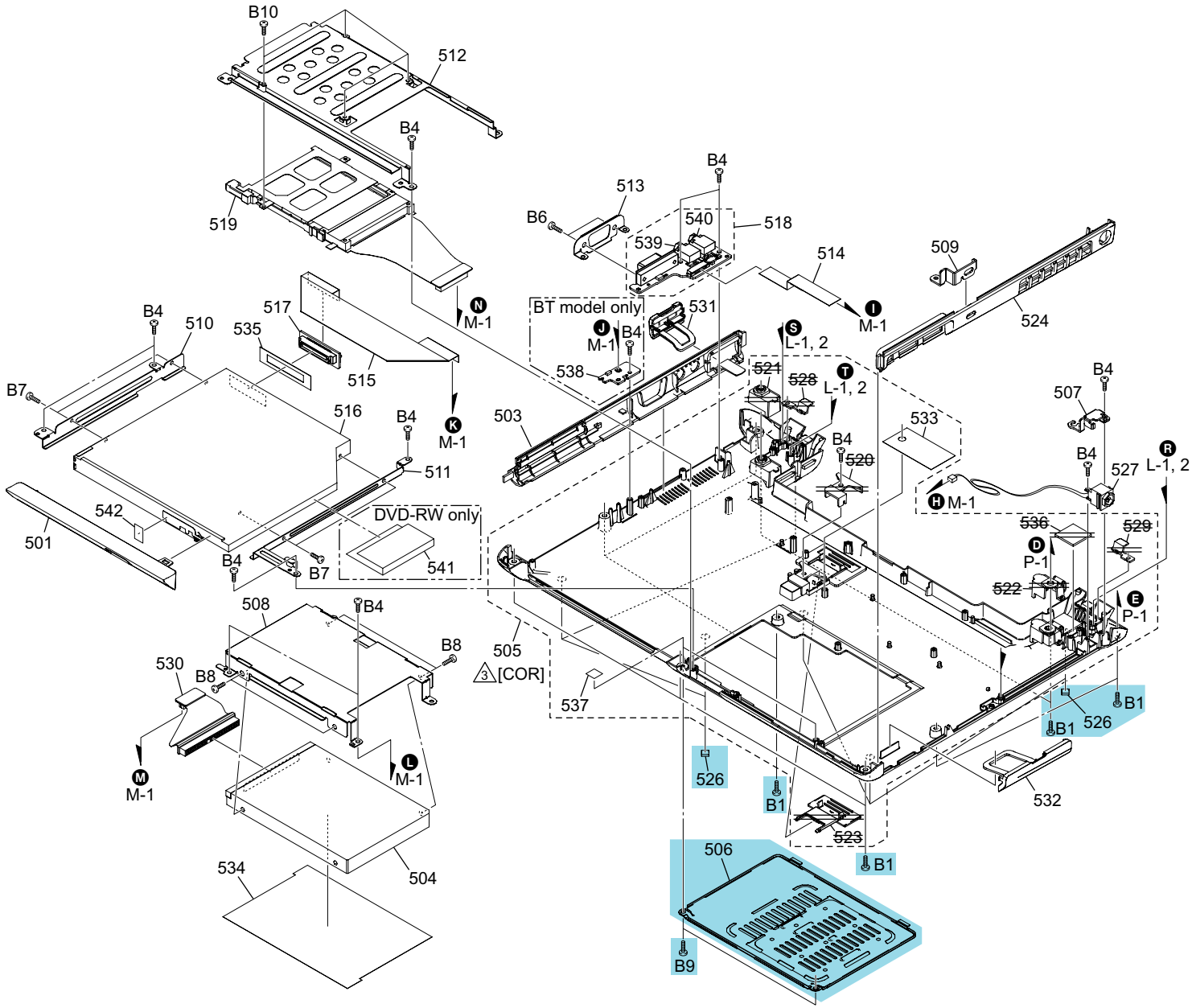
- この部品表は，機種共通の部品と，機種によって使い分けが必要な部品に分かれています。
- When change the CPU (ref. 316), refer to "Replacing the CPU" in CHAPTER 5.
- CPU（Ref. 316）を交換する際には，CHAPTER 5の「Replacing the CPU」をご参照下さい。

B-1. Bottom



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B-1. Bottom

	Ref. No.	Part No.		Description
	503	X-4626-768-2		ASSY ESCUTCHEON L
	505	X-4626-767-2		ASSY HOUSING BOTTOM
	506	X-4626-769-2	&	ASSY LID DIMM
	507	2-024-006-01		BRACKET DC JACK
*	508	4-683-189-02		BRACKET HDD
*	509	4-683-190-01		BRACKET KENJINGTON
*	510	4-683-231-01		BRACKET OPT L
*	511	4-683-232-01		BRACKET OPT R
*	512	4-683-191-02		BRACKET PCCARD
*	513	4-683-192-01		BRACKET VGA
	514	1-829-199-11		CABLE, FLEXIBLE FLAT (18PIN)
	515	1-829-200-11		CABLE, FLEXIBLE FLAT (50PIN)
	517	A-1072-471-A	$	COMPLETE PWB CNX-251 (S)
	518	A-1072-472-A	$	COMPLETE PWB CNX-261 (S)
	519	1-818-398-11		CONNECTOR, FPC WITH PC CARD
	~~520~~	~~4-683-193-01~~		~~COVER DOCK HOLE C~~
	~~521~~	~~4-683-194-01~~		~~COVER DOCK HOLE L~~
	~~522~~	~~4-683-195-01~~		~~COVER DOCK HOLE R~~
	~~523~~	~~4-683-175-02~~		~~DOOR DOCK CONN~~ [DEL]
	524	4-683-196-01		ESCUTCHEON R
	526	4-683-197-01	&	FOOT
	527	1-962-849-11		HARNESS (DC JACK WITH 2P)
	~~528~~	~~4-683-177-01~~		~~HINGE STOPPER L~~
	~~529~~	~~2-025-254-01~~		~~HINGE STOPPER R~~ [DEL]
	530	1-862-745-11		PWB, FLEXIBLE PRINT (HDD)
	531	4-683-188-01		RUBBER DOOR MODEM
	532	4-683-186-01		RUBBER DOOR USB
	533	2-023-589-01		SHEET BOTTOM
	534	2-023-591-01		SHEET HDD
	535	2-059-467-01		SHEET OPT
	~~536~~	~~2-109-079-01~~		~~TAPE FERRITE~~ [DEL]
	537	4-659-711-12		SHEET (BOSS)
	539	1-694-760-21		JACK, SMALL TYPE
	540	1-694-760-41		JACK, SMALL TYPE
	542	4-659-711-02		SHEET (BOSS)
	B1	4-672-834-71	&	SCREW, +B EG GRIP
	B4	4-672-834-51		SCREW, +B EG GRIP
	B6	4-674-716-01		SCREW (NO.4-40) (UNC)
	B7	4-671-538-01		SCREW(M2X4), SPECIAL HEAD
	B8	4-672-839-01		HEAD, M3 FLAT
	B9	4-673-648-01	&	GRIP, M2 (+B) (EG)
	B10	2-050-180-01		+SCREW,O2 +SPECIAL HEAD

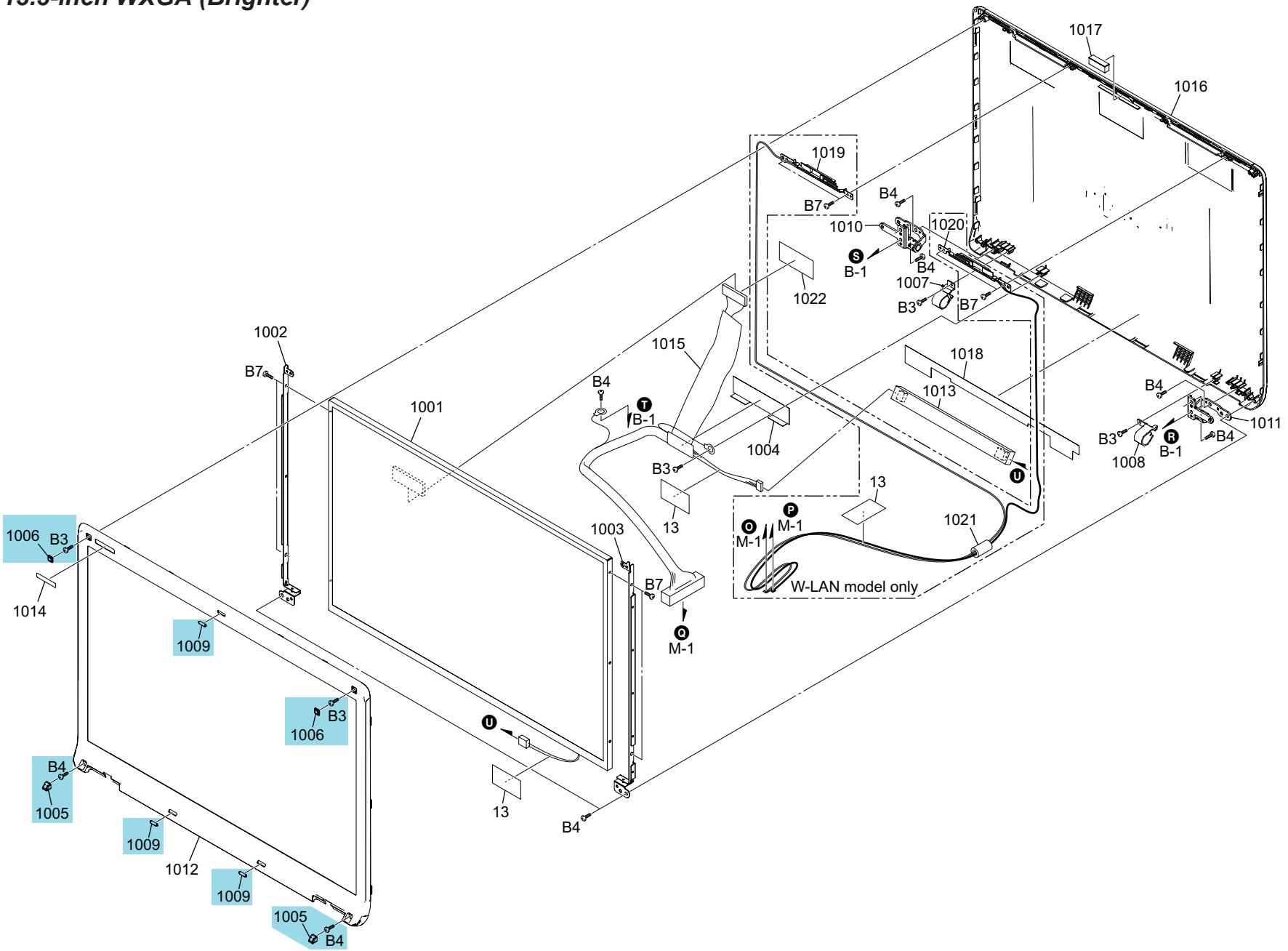
Ref.No.	Part No.		Description	J				AM							EU			AO											
				S70B	S50B	S90PS*	S90S*	S150P	S150	S170*	S170B*	S170P*	S150FP	S150F	S170F	S1XP	S1VP	S1HP	S18GP	S16GP	S18LP	S16LP	S18SP	S16SP	S18TP	S16TP	S18CP	S17C	S16C
501	X-4626-776-2		ASSY BEZEL OPT M			●	●	●	●	●	●	●	●	●				●	●	●		●		●	●		●	●	●
	X-2021-034-2		ASSY BEZEL OPT W	●	●	●	●			●	●	●			●	●	●		●		●		●		●		●		
504	A-1062-140-A	$ #	HDD (80GB,HTS548080M9AT00) (S)							●	●	●																	
	A-1065-503-A	$ #	HDD (40GB,IC25N040ATMR04)(PWB)	●	●								●	●	●				●		●						●		●
	A-1065-523-A	$ #	ASSY HDD 60GB (-21) (H,40) (S)			●	●	●	●	●	●	●				●	●		●		●		●		●		●		
	A-1065-524-A	$ #	ASSY HDD 40GB (-21) (H,40) (S)			●	●			●	●	●						●				●		●					
	A-6117-058-A	$ #	ASSY HDD 80GB (H,40) (S)							●	●	●																	
516	1-796-822-12	$ #	COMBO DRIVE (UJDA755,9.5MM)			●	●	●	●	●	●	●	●	●				●		●		●		●		●		●	●
	1-796-892-13	$ #	DVDRW (UJ-812,9.5MM)	●	●	●	●			●	●	●			●	●	●		●		●		●		●		●		
538	A-1072-474-A	$	COMPLETE PWB IFX-331 (S)	●		●	●			●	●	●				●	●	●											
541	2-178-741-01		SHEET 35X25	●	●	●	●			●	●	●			●	●	●		●		●		●		●		●		
													[MA]	[MA]	[MA]					[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]	[MA]

- This parts list contains two different types of parts.
  The first type is the parts that are common to all models.
  The other type is the parts that are different depending on each model.

- この部品表は，機種共通の部品と，機種によって使い分けが必要な部品に分かれています。

Confidential

L-1. LCD 13.3-inch WXGA (Brighter)



Confidential

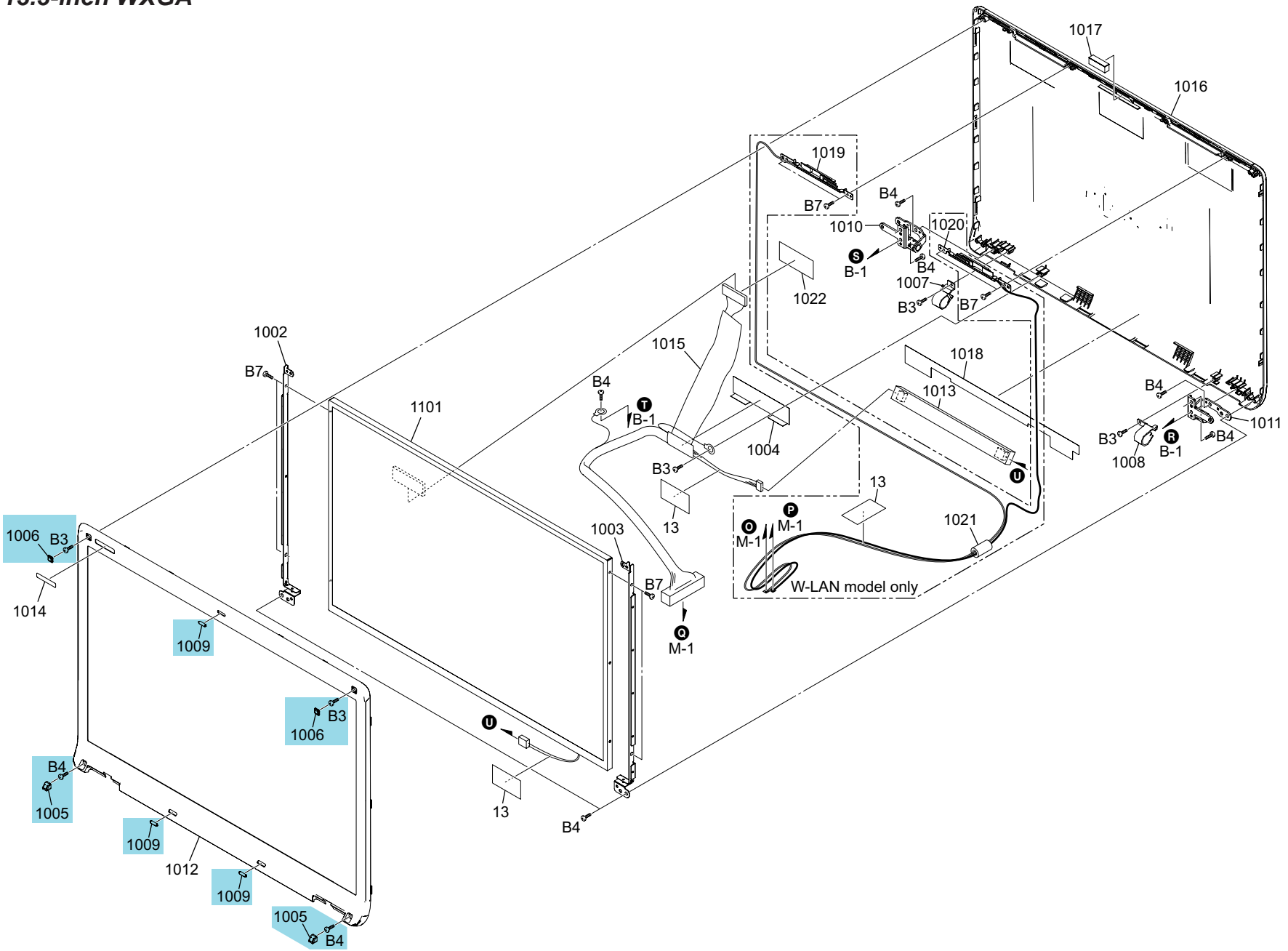
L-1. LCD 13.3-inch WXGA (Brighter)

	Ref. No.	Part No.			Description
	13	4-662-881-02			CUSHION, KEY BOARD
	1001	A-1072-481-A	$	#	LCD UNIT (13.3 WXGA TFT)
*	1002	4-683-218-01			BRACKET LCD L
*	1003	4-683-219-01			BRACKET LCD R
	1004	4-673-031-01			COPPER TAPE(LCD)
	1005	4-683-220-01		&	COVER DISPLAY SCREW LO
	1006	4-683-221-01		&	COVER DISPLAY SCREW UP
	1007	4-683-222-01			COVER HINGE L
	1008	4-683-223-01			COVER HINGE R
	1009	4-683-224-01		&	CUSHION BEZEL
	1010	4-683-225-02			HINGE L
	1011	4-683-226-02			HINGE R
	1012	4-683-217-02			HOUSING BEZEL
	1015	1-962-761-11			LCD HARNESS
	1016	A-1072-525-A	$		ASSY DISPLAY(S)
	1017	2-024-668-01			MAGNET (LID)
	1018	2-067-394-01			SHEET CABLE WLL
	1019	1-754-331-22			ANTENNA (2.4/5GHZ FOR LEFT)
	1020	1-754-331-12			ANTENNA (2.4/5GHZ FOR RIGHT)
	1021	1-400-255-11			FERRITE CORE
	1022	-			FILAMENT TAPE 12X30
	B3	4-672-836-01		<&>	SCREW ,M2 SPECIAL HEAD,EG GRIP
	B4	4-672-834-51		<&>	SCREW, +B EG GRIP
	B7	4-671-538-01			SCREW(M2X4), SPECIAL HEAD

	Ref.No.	Part No.	Description	J				AM								EU			AO													
				S70B	S50B	S90PS*	S90S*	S150P	S150	S170*	S170B*	S170P*	S150FP	S150F	S170F	S1XP	S1VP	S1HP	S18GP	S16GP	S18LP	S16LP	S18SP	S16SP	S18TP	S16TP	S18CP	S17C	S16C				
	1013	1-477-753-11	INVERTER UNIT					●	●	●	●	●	●	●	●				●	●	●	●	●	●	●	●	●	●				
		1-478-283-11	INVERTER UNIT	●	●	●	●									●	●	●														
	1014	2-103-533-01	LABEL ID (JCTO/BTO)			●																										
		2-103-533-11	LABEL ID (JCTO/BTO)				●																									
		2-103-534-01	LABEL ID	●																												
		2-103-534-11	LABEL ID		●																											
		2-103-534-21	LABEL ID					●																								
		2-103-534-31	LABEL ID						●																							
		2-103-534-41	LABEL ID													●																
		2-103-534-51	LABEL ID														●															
		2-103-534-61	LABEL ID															●														
⚠ [MA]		2-103-535-01	LABEL ID (U)										●																			
⚠ [MA]		2-103-535-11	LABEL ID (U)											●																		
⚠ [MA]		2-103-535-21	LABEL ID (U)												●																	
		2-103-535-31	LABEL ID (U)									●																				
		2-103-535-41	LABEL ID (U)							●																						
		2-103-535-51	LABEL ID (U)								●																					
⚠ [MA]		2-103-536-01	LABEL ID (C)																								●					
⚠ [MA]		2-103-536-11	LABEL ID (C)																									●				
⚠ [MA]		2-103-536-21	LABEL ID (C)																										●			
		2-103-537-01	LABEL ID (I)																●													
⚠ [MA]		2-103-537-11	LABEL ID (I)																	●												
⚠ [MA]		2-103-537-21	LABEL ID (I)																		●											
⚠ [MA]		2-103-537-31	LABEL ID (I)																			●										
⚠ [MA]		2-103-537-41	LABEL ID (I)																				●									
⚠ [MA]		2-103-537-51	LABEL ID (I)																					●								
⚠ [MA]		2-103-537-61	LABEL ID (I)																						●							
⚠ [MA]		2-103-537-71	LABEL ID (I)																							●						

⚠ [MA] ⚠ [MA] ⚠ [MA]

L-2. LCD 13.3-inch WXGA



Confidential

L-2. LCD 13.3-inch WXGA

	Ref. No.	Part No.			Description
	13	4-662-881-02			CUSHION, KEY BOARD
*	1002	4-683-218-01			BRACKET LCD L
*	1003	4-683-219-01			BRACKET LCD R
	1004	4-673-031-01			COPPER TAPE(LCD)
	1005	4-683-220-01		&	COVER DISPLAY SCREW LO
	1006	4-683-221-01		&	COVER DISPLAY SCREW UP
	1007	4-683-222-01			COVER HINGE L
	1008	4-683-223-01			COVER HINGE R
	1009	4-683-224-01		&	CUSHION BEZEL
	1010	4-683-225-02			HINGE L
	1011	4-683-226-02			HINGE R
	1012	4-683-217-02			HOUSING BEZEL
	1015	1-962-761-11			LCD HARNESS
	1016	A-1072-525-A	$		ASSY DISPLAY(S)
	1017	2-024-668-01			MAGNET (LID)
	1018	2-067-394-01			SHEET CABLE WLL
	1019	1-754-331-22			ANTENNA (2.4/5GHZ FOR LEFT)
	1020	1-754-331-12			ANTENNA (2.4/5GHZ FOR RIGHT)
	1021	1-400-255-11			FERRITE CORE
	1022	-			FILAMENT TAPE 12X30
	1101	A-1072-480-A	$	#	LCD UNIT (13.3 WXGA TFT) NORMAL
	B3	4-672-836-01		<&>	SCREW ,M2 SPECIAL HEAD,EG GRIP
	B4	4-672-834-51		<&>	SCREW, +B EG GRIP
	B7	4-671-538-01			SCREW(M2X4), SPECIAL HEAD

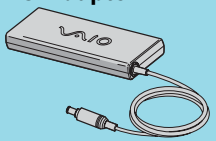
Ref.No.	Part No.	Description	J		AM		
			S90PS*	S90S*	S170*	S170B*	S170P*
1013	1-477-753-11	INVERTER UNIT			●	●	●
	1-478-283-11	INVERTER UNIT	●	●			
1014	2-103-533-01	LABEL ID (JCTO/BTO)	●				
	2-103-533-11	LABEL ID (JCTO/BTO)		●			
	2-103-535-31	LABEL ID (U)					●
	2-103-535-41	LABEL ID (U)			●		
	2-103-535-51	LABEL ID (U)				●	

- This parts list contains two different types of parts.
  The first type is the parts that are common to all models.
  The other type is the parts that are different depending on each model.

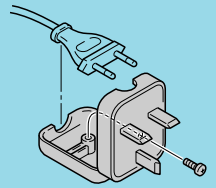
- この部品表は，機種共通の部品と，機種によって使い分けが必要な部品に分かれています。

A-1. Accessories

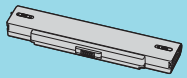
2001
AC Adaptor



2002
Conversion Plug 3P Adaptor

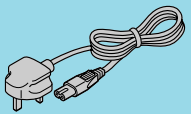


2003
Battery



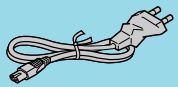
2004
L Battery

2005
AC Power Cord

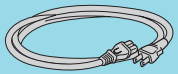


2006
Power Cord

2007
Power Cord

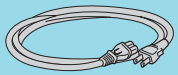


2008
Power Cord



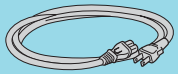
△4 [MA]

2009
Power Cord

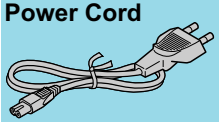


△1 [MA]

2010
Power Cord



2011
Power Cord



Ref. No.	Part No.			Description
△ 2001	1-477-749-52	$	&	ADAPTOR, AC

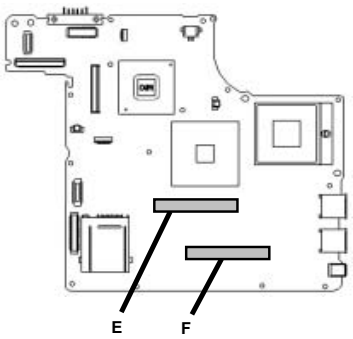
	Ref.No.	Part No.			Description	J				AM							EU			AO												
						S70B	S50B	S90PS*	S90S*	S150P	S150	S170*	S170B*	S170P*	S150FP	S150F	S170F	S1XP	S1VP	S1HP	S18GP	S16GP	S18LP	S16LP	S18SP	S16SP	S18TP	S16TP	S18CP	S17C	S16C
△	2002	1-770-019-12		&	(UK)...ADAPTOR, CONVERSION PLUG 3P													●	●	●												
△	2003	A-1072-505-A	$	&	BATTERY PACK BPS2 (J) (S)	●	●	●	●																							
△		A-1072-506-A	$	&	BATTERY PACK BPS2 (U) (S)					●	●	●	●	●																		
△		A-1072-507-A	$	&	BATTERY PACK BPS2 (E/I) (S)										●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
△	2004	A-1072-509-A	$	&	BATTERY PACK BPL2 (U) (S)							●	●	●																		
△	2005	1-823-935-51		&	CORD, AC POWER																●	●										
△	2006	1-555-074-32		&	CORD, POWER																●	●										
△	2007	1-575-131-61		&	CORD, POWER													●	●	●					●	●						
△	2008	1-757-562-21		&	CORD, POWER					●	●	●	●	●	●	●	●										●	●				
△ [MA]	2009	1-782-476-22		&	CORD, POWER																								●	●	●	
△	2010	1-790-732-32		&	CORD, POWER	●	●	●	●																							
△ [MA]	2011	1-823-947-32		&	POWER-SUPPLY CORD																		●	●								
	-	2-059-851-01			GETTING STARTED, PRO													●	●	●												
	-	2-059-850-11			(UK/EFTA/EC/Switzerland)...HW SPECS, PRO													●	●	●												
	-	2-059-850-21			(German/Switzerland)...HW SPECS, PRO													●	●	●												
	-	2-059-850-31			(Belgium/French/Switzerland)...HW SPECS, PRO													●	●	●												
	-	2-059-850-41			(Italian)...HW SPECS, PRO													●		●												
	-	2-059-850-51			(Spanish)...HW SPECS, PRO													●														
	-	2-059-850-61			(EFTA/Belgium)...HW SPECS, PRO													●	●	●												
	-	2-059-850-71			(EFTA)...HW SPECS, PRO													●														
	-	2-025-264-01			MANUAL (XP), INSTRUCTION	●	●	●	●																							
	-	2-102-956-11			MANUAL (XP), INSTRUCTION																●	●			●	●						
△ [MA]	-	2-102-956-21			MANUAL (XP), INSTRUCTION																		●	●								
△ [MA]	-	2-102-956-41			MANUAL (XP), INSTRUCTION																						●	●				
△ [MA]	-	2-102-957-31			MANUAL (XP), INSTRUCTION																								●	●	●	
	-	1-816-429-12			(UK)...PHONE PLUG (GB)													●	●	●												
	-	2-055-463-01			QUICK START, 2880 UCTO (SD)							●	●	●																		
△ [MA]	-	2-055-462-01			QUICK START, 2880L (SD)										●	●	●															
	-	2-050-186-01			QUICK START 2880 U (D)					●	●																					
	-	2-102-834-01			(Switzerland)...MULTI MS WORKS COA (C)													●		●												
																		△	△	△												
																		[MA]	[MA]	[MA]												

CHAPTER 5.
OTHER

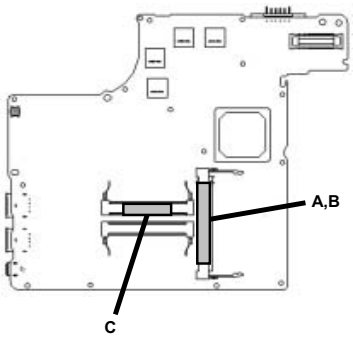
5-1. The Barcode Label

The hatched portion of the barcode is used as the repair data.
バーコードラベルの網掛け部は，修理データとして使用いたします。

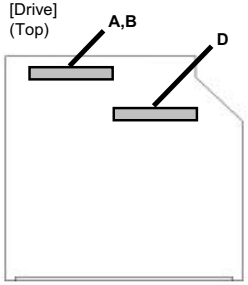
[MBX-109 Board]
(Side A)



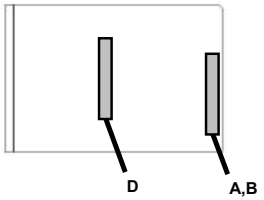
[MBX-109 Board]
(Side B)



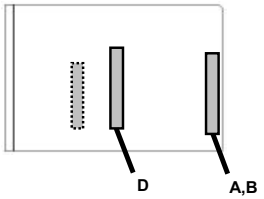
[Drive]
(Top)



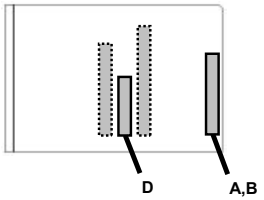
[HDD (TOSHIBA)]
(Top)



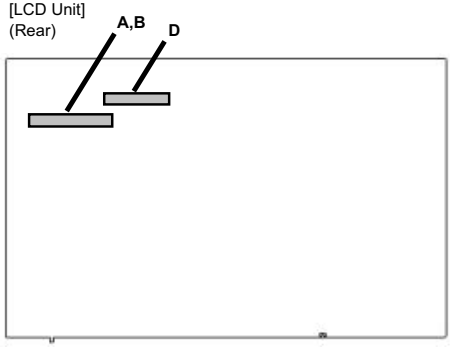
[HDD (HITACHI)]
(Top)



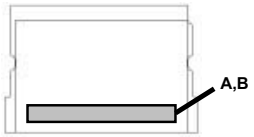
[HDD (HITACHI / IBM)]
(Top)



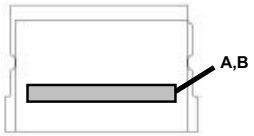
[LCD Unit]
(Rear)



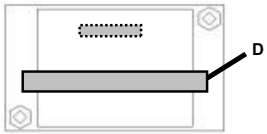
[MM-9 Board]
(Side A)



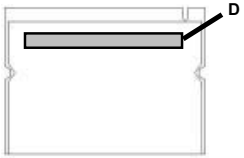
[MM-11 Board]
(Side A)



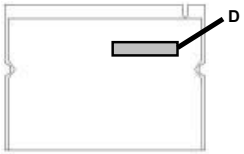
[MODEM Card]



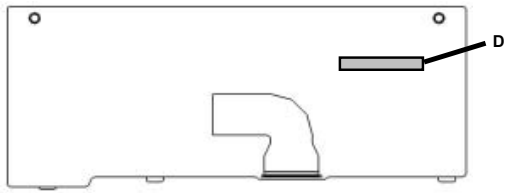
[W-LAN Card (intel)]



[W-LAN Card (ambit)]



[Keyboard Unit]
(Rear)



A : Part No.
B : Serial No.
C : Revision No.
D : Maker Barcode
E : Global User ID (iLink)
F : Mac Address

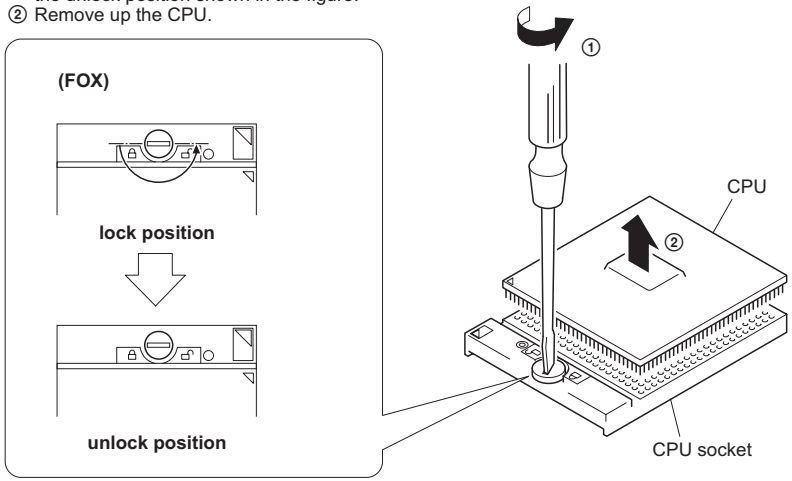
5-2. Replacing the CPU

Note: We have two kinds of CPU for this set, and either of them is used.
Two kinds of CPU have differences in the lock position and the unlock position.

1. Socket configuration 1

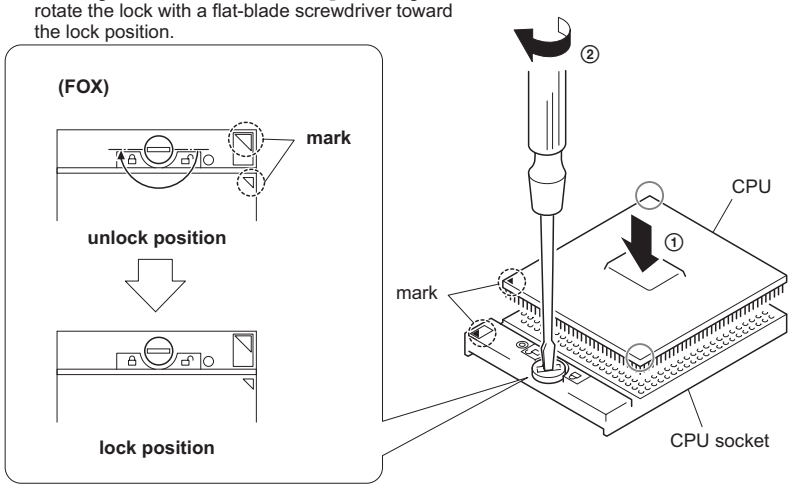
1. How to remove the CPU

① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.
② Remove up the CPU.



2. How to install the CPU

① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
② Pressing two corners marked with ○ in the figure, rotate the lock with a flat-blade screwdriver toward the lock position.

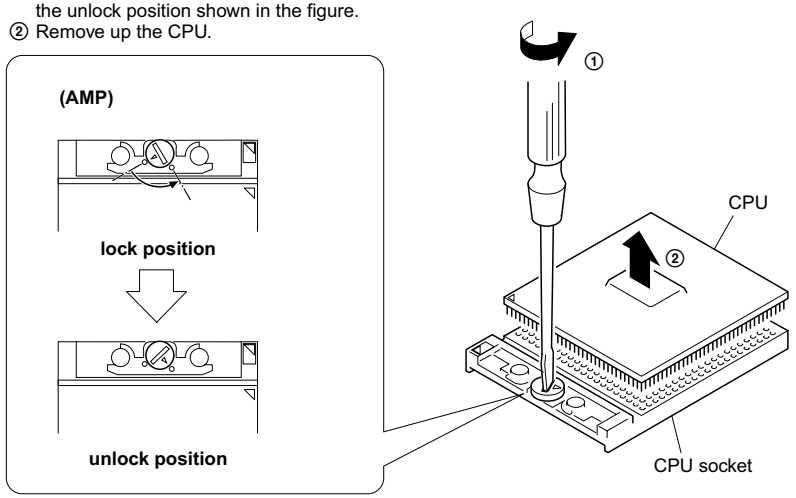


Note: Lock the CPU properly, or operation becomes unstable.

2. Socket configuration 2

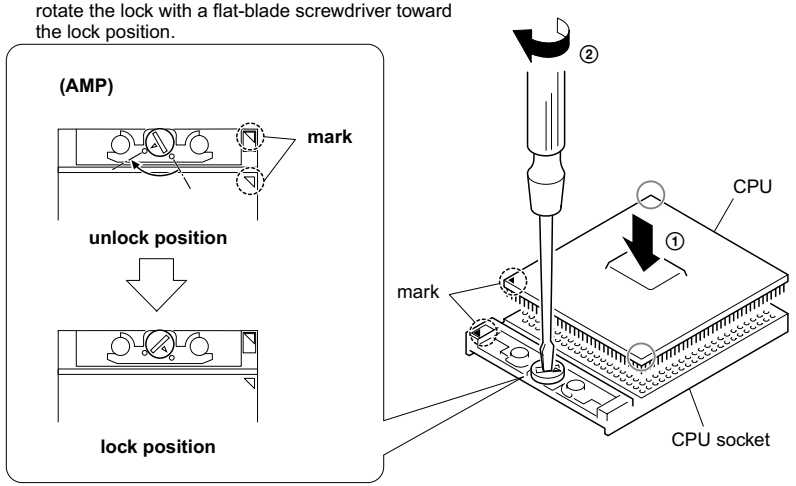
1. How to remove the CPU

① Rotate the lock with a flat-blade screwdriver toward the unlock position shown in the figure.
② Remove up the CPU.



2. How to install the CPU

① Position the mark on the CPU to the mark on the CPU socket and put in all pins to the holes on the CPU socket.
② Pressing two corners marked with ○ in the figure, rotate the lock with a flat-blade screwdriver toward the lock position.



Note: Lock the CPU properly, or operation becomes unstable.

Confidential

List of VGN S Series (As of August, 2004)

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-369-XX	VGN-S50B	VGN-S150	VGN-S1HP	VGN-S16C
	VGN-S70B	VGN-S150F	VGN-S1VP	VGN-S16GP
	VGN-S90PS*	VGN-S150FP	VGN-S1XP	VGN-S16LP
	VGN-S90S*	VGN-S150P		VGN-S16SP
		VGN-S170*		VGN-S16TP ☜
		VGN-S170B*		VGN-S17C
		VGN-S170F		VGN-S18CP
		VGN-S170P*		VGN-S18GP
				VGN-S18LP
				VGN-S18SP
				VGN-S18TP

* : CTO Model
☜ : Additional Models

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Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2004.06.25	First Edition	
-02	Ver. 2	2004.07.05	⚠1 Front Page (Model Lineup), Page 1-1 to 1-2, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9, Page 4-12, Back Cover	N2004_074AK
-03	Ver. 3	2004.07.20	⚠2 Front Page (Model Lineup), Page 1-2, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9, Page 4-12, Back Cover	N2004_081AK
-04	Ver. 4	2004.07.22	⚠3 Page 4-2 to 4-3, Page 4-6 to 4-7	N2004_089CK
-05	Ver. 5	2004.08.02	⚠4 Front Page (Model Lineup), Page 1-2, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9, Page 4-12, Back Cover	N2004_091AK
-06	Ver. 6	2004.08.19	⚠5 Front Page (Model Lineup), Page 1-2, Page 4-1, Page 4-3, Page 4-5, Page 4-7, Page 4-9, Page 4-12, Back Cover	N2004_099AK

<Remarks>